Spatio-Temporal Monitoring of Forest Fires and Vegetation

Guest Editors:

Prof. Dr. Luis A. Ruiz
Geo-Environmental Cartography
and Remote Sensing Group
(CGAT), Universitat Politècnica de
València, Camino de Vera s/n,
46022 Valencia, Spain

Dr. Pablo Crespo-Peremarch
Geo-Environmental Cartography
and Remote Sensing Group
(CGAT), Universitat Politècnica de
València, Camino de Vera s/n,
46022 Valencia, Spain

Deadline for manuscript
submissions:
closed (23 January 2024)

Message from the Guest Editors

Forest dynamics monitoring is crucial for forest management operations, ecosystem and biodiversity preservation, tracking climate change effects, and wildfire prevention, control, and recovery. The large variety of remote sensing platforms (satellite, aerial, UAV, and terrestrial), imagery (multispectral and hyperspectral), and resulting products (i.e., time series and photogrammetric point clouds) are contributing to both the large-scale and fine characterization of forests.

In this Special Issue, we aim to collect contributions about new advances in remote sensing laser scanning systems, data sets, methods, and tools used to map and monitor vegetation from a spatiotemporal perspective, with a special emphasis on the prevention and mitigation of forest fires and the interpretation and analysis of the evolution of forest landscapes through the application of these techniques.

Keywords:

forest structure
wildfires
hyperspectral
imagery
time series
ALS; TLS; UAV
spatial analysis
vegetation monitoring

Special Issue

Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng
Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa
Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

Message from the Editorial Board

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access.

Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.
Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

Contact Us